# PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
227-03980	ACTION	
International application No.	International filing date (day/month	(Earliest) Priority Date (day/month/year)
PCT/IL2004/000289	29/03/2004	01/04/2003
Applicant		
GLUCON INC.		
This International Search Report has bee according to Article 18. A copy is being to	en prepared by this International Sea ransmitted to the International Bureau	rching Authority and is transmitted to the applicant  J.
This International Search Report consist		
X It is also accompanied b	y a copy of each prior art document of	ated in this report.
Basis of the report     With regard to the language, the	e international search was carried out nless otherwise indicated under this i	on the basis of the international application in the
The international	I search was carried out on the basis	of a translation of the international application furnished to
this Authority (R		no de all'antino ne Paulle I
b. With regard to any nucle	eotide and/or amino acid sequence	e disclosed in the international application, see Box No. I.
2. Certain claims were fo	und unsearchable (See Box II).	
3. Unity of invention is la	cking (see Box III).	
4 Miles record to the Miles		
4. With regard to the title,	submitted by the applicant.	* <i>j</i>
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the text has been estable	issign by this Authority to read as lon-	
5. With regard to the abstract,		
	submitted by the applicant.	
X the text has been estab	lished, according to Rule 38.2(b), by from the date of mailing of this internated	this Authority as it appears in Box No. IV. The applicant attornal search report, submit comments to this Authority.
C Mith copyrde to the decisions		
6. With regards to the drawings,	e published with the abstract is Figure	e No. 1
		- 1321 <u></u>
I —	y the applicant.	failed to support a figure
	this Authority, because the applicant	
1 <u> </u>	this Authority, because this figure be	ner characterizes the invention.
b none of the figures is to	be published with the abstract.	

Form PCT/ISA/210 (first sheet) (January 2004)

International application No.

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

Apparatus (20, 100) for assaying a target analyte in a localized tissue region (22) that may include the target and other analytes comprising: a light source (34, 104) that illuminates the region with light at each of a plurality of wavelengths at which light is absorbed and/or scattered by tissue in the region a signal generator (40) that generates signals responsive to intensity of the light from the light source (34, 104) at different locations in the localized region (22); and a controller (32, 102) that: receives the generated signals; processes the signals to determine an extinction coefficient for light in the localized region at each wavelength; and determines the concentration of the target analyte responsive to a solution of a set of simultaneous equations having as unknown variables concentrations of a plurality of analytes in the region (22), one of which is the target analyte, wherein each equation in the set expresses a relatioship between the extinction coefficient, the absorption coefficient and/or the reduced scattering coefficient for light at a different one of the plurality of wavelengths.

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International Application No PCT/IL2004/000289

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A. CLASSII IPC 7	FICATION OF SUBJECT MATTER A61B5/00 G01N21/17		
	o International Patent Classification (IPC) or to both national classification	on and IPC	
	cumentation searched (classification system followed by classification	eymhole)	
IPC 7	A61B G01N		
	ilon searched other than minimum documentation to the extent that suc ata base consulted during the international search (name of data base		icheo
İ	ternal, INSPEC		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relev	vant passages	Relevant to claim No.
X	US 6 405 069 B1 (KARABUTOV ALEXANI AL) 11 June 2002 (2002-06-11)	DER A ET	1-7,9, 14-17, 19-23,28
Y	the whole document		8,10-13, 18,24-27
lx	US 6 498 942 B1 (ESENALIEV RINAT ( 24 December 2002 (2002-12-24)	D ET AL)	1-7,9, 15-17, 19-23
	column 3, line 14 - column 5, line column 7, line 65 - column 8, line column 10, line 3 - column 11, line	e 9	
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	ther documents are listed in the continuation of box C.	X Patent family members are listed i	n annex.
'A' docum	nent defining the general state of the art which is not	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the	the application but
	Idered to be of particular relevance document but published on or after the International date	invention  'X' document of particular relevance; the considered novel or cannot	laimed invention
Which	ent which may throw doubts on priority claim(s) or of clied to establish the publication date of another on or other special reason (as specified)	involve an inventive step when the do "Y" document of particular relevance; the cannot be considered to involve an in-	cument is taken alone laimed invention
*P* docum	nent referring to an oral disclosure, use, exhibition or r means nent published prior to the International filing date but	document is combined with one or mo ments, such combination being obvior in the art.	ore other such docu- us to a person skilled
later	than the priority date claimed e actual completion of the international search	*&* document member of the same patent Date of mailing of the international sea	
	17 August 2004	31/08/2004	
Name and	I mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	·
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Lohmann, S	

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International Application No
PCT/IL2004/000289

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
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Information on patent family members

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